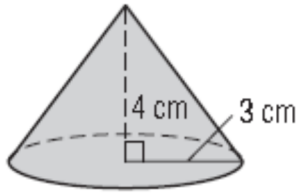


# TARGET D

Name \_\_\_\_\_ Date \_\_\_\_\_

Find the area of the base, lateral area, surface area, and volume for each cone. Leave all answers in terms of  $\pi$ !

1.



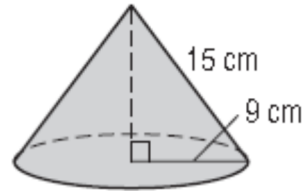
Area of base = \_\_\_\_\_

LA = \_\_\_\_\_

SA = \_\_\_\_\_

Volume = \_\_\_\_\_

2.



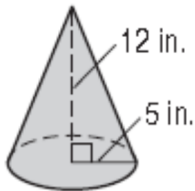
Area of base = \_\_\_\_\_

LA = \_\_\_\_\_

SA = \_\_\_\_\_

Volume = \_\_\_\_\_

3.



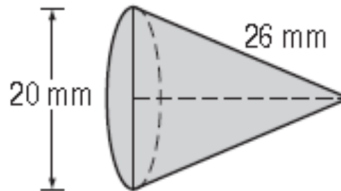
Area of base = \_\_\_\_\_

LA = \_\_\_\_\_

SA = \_\_\_\_\_

Volume = \_\_\_\_\_

4.



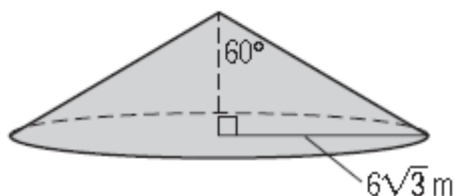
Area of base = \_\_\_\_\_

LA = \_\_\_\_\_

SA = \_\_\_\_\_

Volume = \_\_\_\_\_

5.



Area of base = \_\_\_\_\_

LA = \_\_\_\_\_

SA = \_\_\_\_\_

Volume = \_\_\_\_\_

## TARGET D (ANSWERS)

1. area of base =  $9\pi \text{ cm}^2$

$$LA = 15\pi \text{ cm}^2$$

$$SA = 24\pi \text{ cm}^2$$

$$V = 12\pi \text{ cm}^3$$

2. area of base =  $81\pi \text{ cm}^2$

$$LA = 135\pi \text{ cm}^2$$

$$SA = 216\pi \text{ cm}^2$$

$$V = 324\pi \text{ cm}^3$$

3. area of base =  $25\pi \text{ in}^2$

$$LA = 65\pi \text{ in}^2$$

$$SA = 90\pi \text{ in}^2$$

$$V = 100\pi \text{ in}^3$$

4. area of base =  $100\pi \text{ mm}^2$

$$LA = 240\pi \text{ mm}^2$$

$$SA = 340\pi \text{ mm}^2$$

$$V = 800\pi \text{ mm}^3$$

5. area of base =  $108\pi \text{ m}^2$

$$LA = 72\sqrt{3}\pi \text{ m}^2$$

$$SA = 108\pi + 72\sqrt{3}\pi \text{ m}^2$$

$$V = 216\pi \text{ m}^3$$